

FIG. 1

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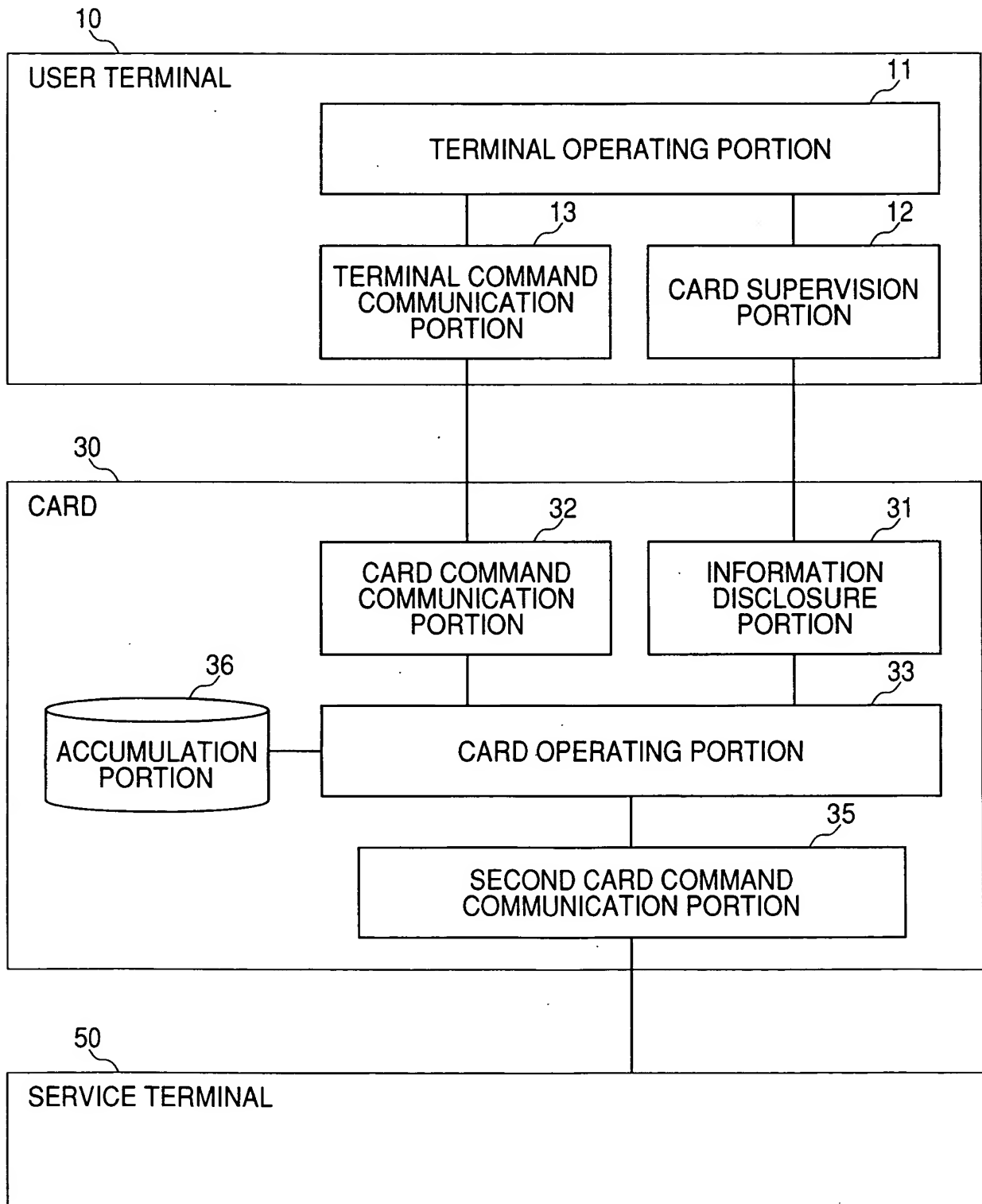


FIG. 2

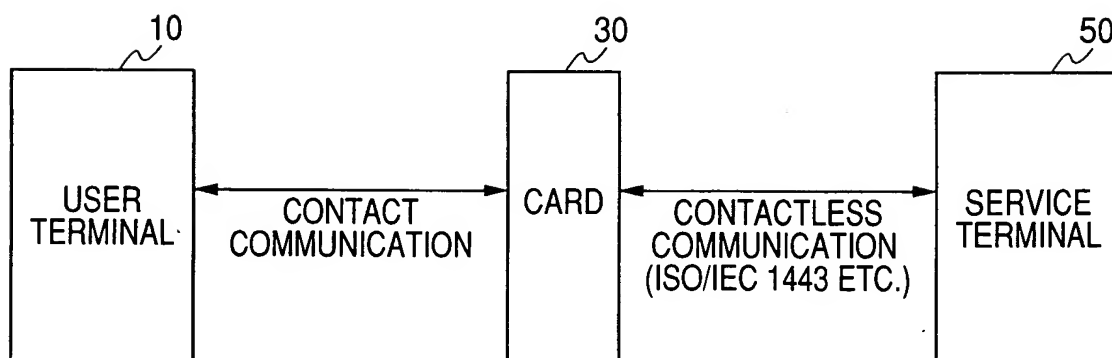


FIG. 3(a)

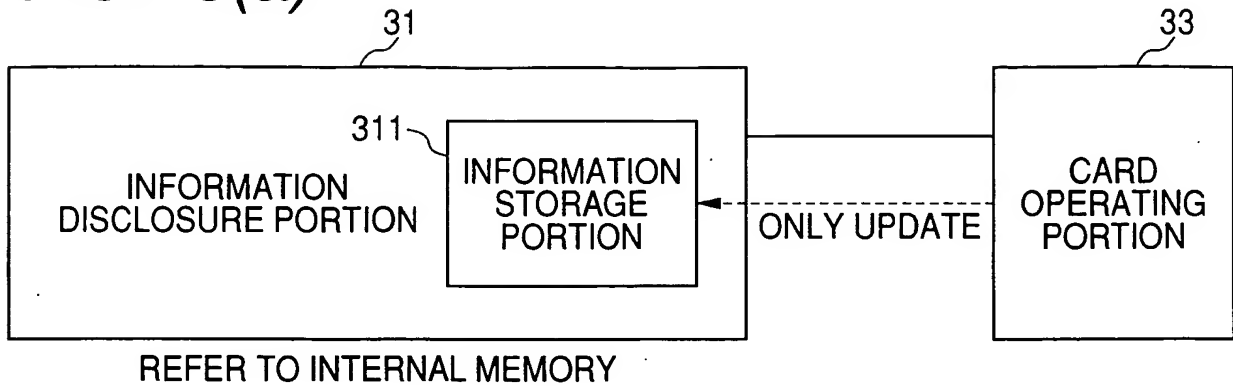


FIG. 3(b)

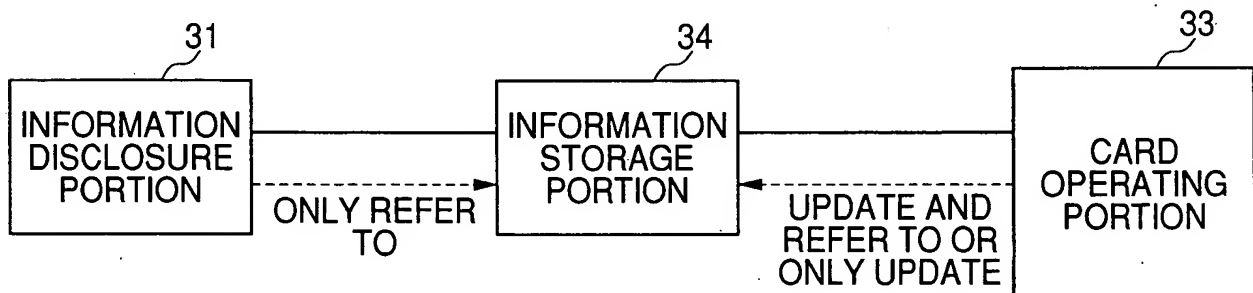
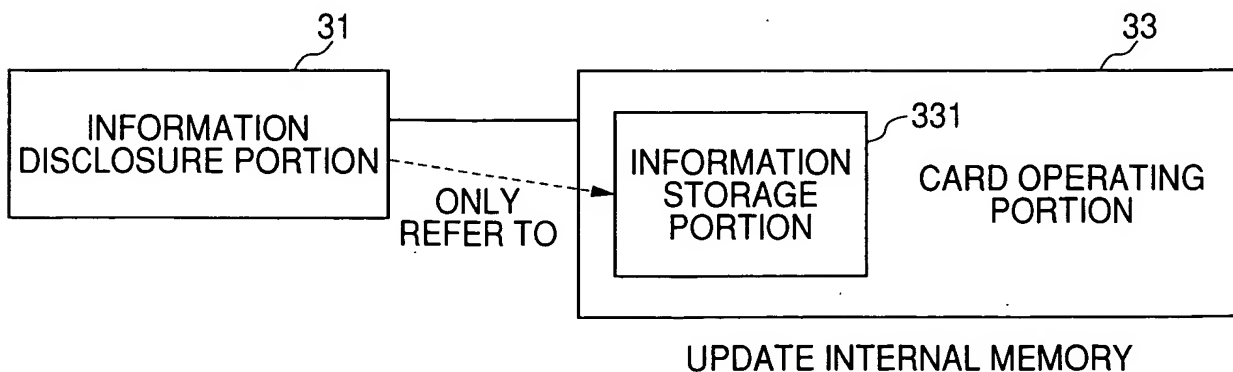


FIG. 3(c)



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sequenceDiagram
    participant USER_TERMINAL as USER TERMINAL
    participant CARD as CARD
    participant SERVICE_TERMINAL as SERVICE TERMINAL

    USER_TERMINAL->>CARD: START SERVICE (START IN CONTACTLESS MANNER) (1)
    activate CARD
    CARD->>SERVICE_TERMINAL: { INITIALIZE INFORMATION DISCLOSURE PORTION (2)
    activate SERVICE_TERMINAL
    SERVICE_TERMINAL->>CARD: SERVICE PROCESS (BY CONTACTLESS COMMUNICATION) (4)
    deactivate SERVICE_TERMINAL
    CARD->>USER_TERMINAL: (3)
    deactivate CARD
    USER_TERMINAL->>CARD: OK (ACK)
    activate CARD
    CARD->>SERVICE_TERMINAL: REFER TO PROCESSING STATUS (CHECK INFORMATION DISCLOSURE PORTION) (5)
    activate SERVICE_TERMINAL
    SERVICE_TERMINAL->>CARD: IN PROCESS (6)
    deactivate SERVICE_TERMINAL
    CARD->>USER_TERMINAL: .
    deactivate CARD
    USER_TERMINAL->>CARD: REFER TO PROCESSING STATUS (5')
    activate CARD
    CARD->>SERVICE_TERMINAL: IN PROCESS (6')
    activate SERVICE_TERMINAL
    SERVICE_TERMINAL->>CARD: .
    deactivate SERVICE_TERMINAL
    CARD->>USER_TERMINAL: REFER TO PROCESSING STATUS (8)
    activate CARD
    CARD->>SERVICE_TERMINAL: { REGISTER PROCESS COMPLETION MESSAGE TO INFORMATION DISCLOSURE PORTION (7)
    activate SERVICE_TERMINAL
    SERVICE_TERMINAL->>CARD: COMPLETION FLAG + MESSAGE (9)
    deactivate SERVICE_TERMINAL
    deactivate CARD
    
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FIG. 5(a)

PROCESSING RESULT

FIG. 5(b)

CARD APPLICATION ID	PROCESSING RESULT
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FIG. 5(c)

TERMINAL APPLICATION ID	PROCESSING RESULT
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FIG. 5(d)

TERMINAL APPLICATION ID	CARD APPLICATION ID	PROCESSING RESULT
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FIG. 6

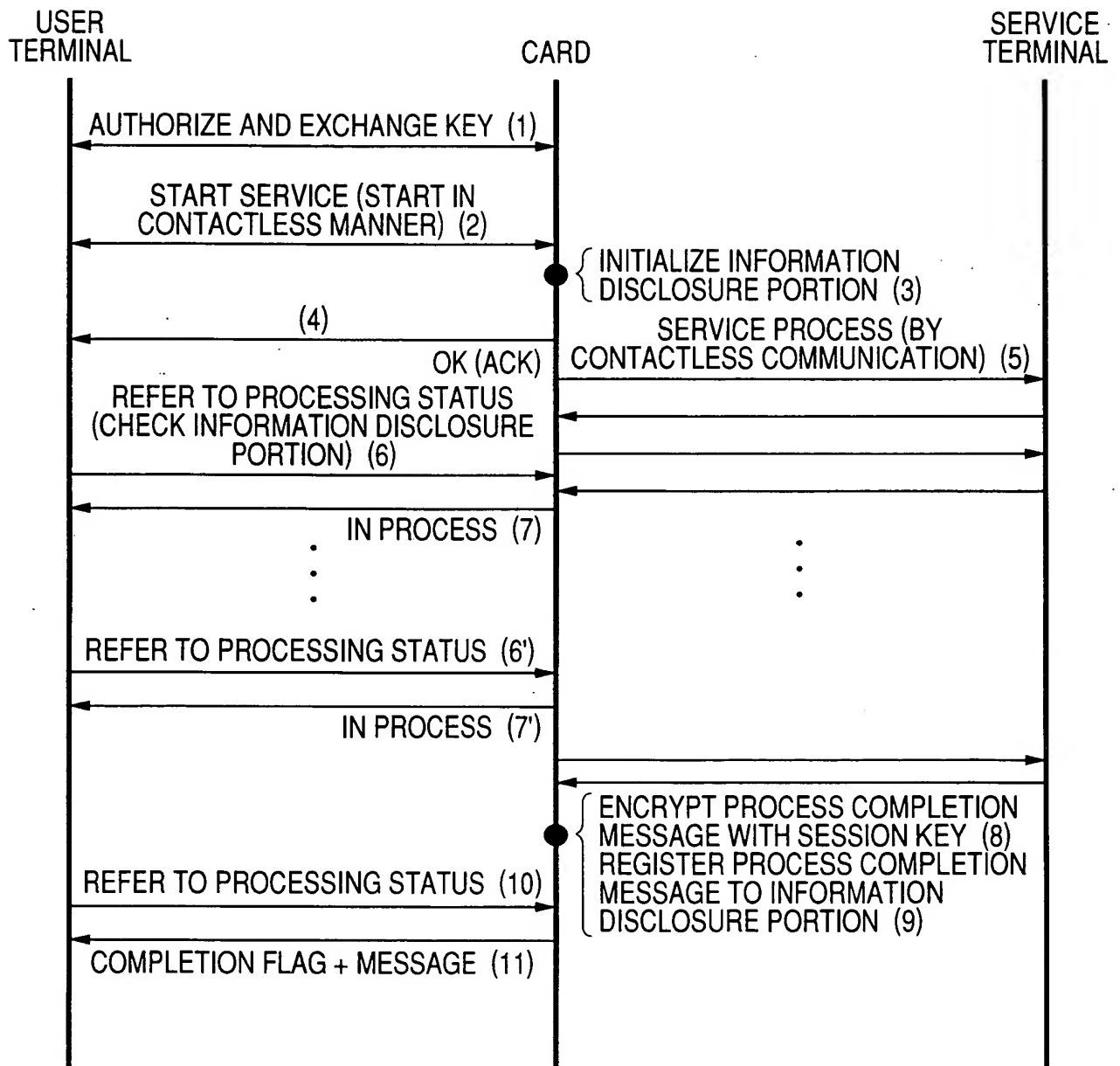


FIG. 7(a)

TERMINAL APPLICATION ID	ENCRYPTION PROCESSING RESULT
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FIG. 7(b)

ENCRYPTION	
TERMINAL APPLICATION ID	PROCESSING RESULT

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